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100% Free SMS: ON<space>UandiStar to 9870807070 for Tech SMS,JNTU Alerts,JOB Alerts, GATE,GRE... NOTIFICATIONS 17. A three phase 33/6.6 kV Star/ Delta transformer is b. Nitrogen protected c. Hvdrogen by Merz-Price protection scheme. If the CT on the low voltage d. SF6 side have a ratio of 300/5, then the ratio of CT on 28. Buchholz relay is used in a. Air cooled transformers HV side will be equal to a. 60:5 b. Instrument transformers b. 5 :60 c. Oil immersed power transformers of rating above 500 kVA c. 300: d. Distribution transformers d. :12 29. Buchholz relay is used for 18. A three phase, 200 kVA, 11/0.4 kV, transformer is a. Protection of transformers against all external faults b. Protection of transformers against all internal and Delta/Star. The protective transformers on the 0.4 kV side have turn ratio external faults of 500/5. The CT ratio on HV side is c. Protection of Induction motors d. Protection of transformers against all internal faults a. 18.18:5.56 b. 18.18:1.66 30. Buchholz relay is used for protection of c. 18.18:8.66 a. Bus-bars d. 8.66:18.18 b. Transformers 19. A star-delta 11/6.6 kV transformer is protected by Merz c. Relavs price protection scheme. The CT ratio on the delta side is d. Circuit breakers 600/5 31. The relay used for the protection of power transformer A. The CT ratio on star side is against internal faults is a. 360 :5 a. Buchholz relay b. 360:5 b. Mho relay c. 360:5 c. Induction Relay d. Impedance relay d. 5:360 32. Buchholz relay has 20. A 100 MVA, 132/6.6 kV, power transformer is connected in a. One mercury switch delta- star. If the circulating current in the pilot wires of the differential protection scheme b. Two mercury switches c. Three mercury switches is 5 A, then ratio of CT onLT side is a. 47.73:5 d. 4 mercury switches b. 47.73:1 33. The operating time of the instantaneous relay is in the c. 47.73:5 order d. 47.73:5 of a. Milliseconds 21. A three phase 66/11 kV star-delta transformer is protected by Merz-Price protection scheme. The CTs on the LT side is b. Nanoseconds c. Few milliseconds have a ratio of 420/5 A. The ratio of CT on HV side will d. Microseconds be equal to a. 24.25:1 34. Which is the pilotless protection method for feeder line? b. 23.25:1 a. Differential protection c. 23:2 b. Carrier current protection c. Time graded protection d. 1:24.25 22. A 100 MVA, 132/6.6 kV, power transformer is connected in d. Over current protection delta- star. CT is connected in 35. An earth conductor provided on the top of the a. delta-delta transmission b. Delta-star line does not provides c. Star - delta protection against d. star-star a. Direct lightning stroke 23. Buchholz relay is a b. Traveling waves a. oil actuated relay c. Electro statically induced voltage due to the a charged b. current actuated relay cloud c. gas actuated relay d. Corona d. oil temperature actuated relay 36. Graded time lag over-current relaying without directional 24. Buchholz relay is features can be employed for protection of a. Placed in the Conservator tank b. Located in the transformer tank itself a. Ring mains c. Connected in the pipe connecting main tank of the b. Parallel feeders transformer and conservator c. Radial feeders d. Installed in the circuit breaker d. Service mains 25. Buchholz relay is used for 37. Definite time over current relays are used for a. Carrier protection a. Transmission lines b. Transformer protection b. Mesh system c. Generator protection c. Radial system d. Motor Protection d. Parallel lines 26. Buchholz relay can detect the faults _____ oil 38. In inverse time over current relays the time current level of the transformer **Characteristics are** a. Below a. Parabolic b. Above b. Hyperbolic c. Fither above or below c. Linear d. Outside the transformer d. Straight Line 27. The gas evolved when the fault occurs is 39. Which of the relays are used for phase faults on long line a. Oxygen a. Impedance FOR MORE VISIT: http://www.UandiStar.org

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62 In a 2 stan distance protection the reach of the three zenes	75. Ear thing of Electrical Equipment is passage for the	
of the relay at the beginning of the Eirct line twicely extends	75. Ear thing of Electrical Equipment is necessary for the	
into	a Over loading	
a 100 % of the first line, 50 % of the second line and 20	b Voltage fluctuations	
% of the third line	c Danger of electric Shock	
b 80 % of the first line 50 % of the second line and 20 %	d High conductor temperature	
of the third line	76 The earth wire should be	
c 80 % of the first line 50 % of the second line and 10 %	a Good conductor of electricity	
of the third line	h Mechanically Strong	
d. 50 % of the first line, 50 % of the second line and 20 % of	c. Mechanically Strong But bad	
the	d. Must be good conductor and mechanically strong	
third line	77. Farth wires are made of	
64. Distance protection scheme is preferred over graded time	a Copper	
lag over current protection in HV and FHV lines because	h Aluminum	
a It is faster in operation	c Iron	
h It is simple	d Galvanized standard steel	
c. It is cheaper in cost	78 The earth transformers are used to	
d It is flexible	a Avoid the harmonics in the transformers	
65. Differential relays are used to protect the equipment	h Measure the voltage	
againsta Internal faults	c. Provide artificial neutral ear thing where neutral point is	
b Reverse current	not accessible	
c. Over current	d Improve stability of the system	
d Back up protection	79 Coofficient of earthing is defined as the ratio of	
6. Which of the following section can be employed for hus	75. Coefficient of earlining is defined as the fatto of	
bere?	a. Highest phase to ground voltage of healthy phase to phase	
Dars :	to phase voltage	
a. water pies	b. Highest phase to ground voltage of unnealthy phase to	
D. Insulators	phase to phase voltage	
c. Cables	c. RMS value to peak value of the phases	
d. Metal tubes	d. Maximum value to RMS value of the phases	
67. The main factor in favor of the use of aluminum as bus-bar	80. Earthing means	
material is its	a. Connecting a non-current carrying parts to a massive	
a. Low cost	earth point	
b. Low density	b. Connecting a current carrying parts to a massive earth	
c. Low melting point	point	
d. High resistivity	c. Connecting a non-current carrying and current carrying	
68. The material used for bus-bars should have	parts to a massive earth point	
a. Low resistivity	d. Shorting of all phase wires with ground	
b. Lower softening temperature	81. The size of the earth wire is determined on the basis of	
c. High resistivity	a. Voltage of the service line	
d. High reactance	b. Current carrying capacity of the service line	
69. Bus bar zones faults are generally	c. Atmospheric conditions	
a. Phase to phase faults	d. Resistance of the service line	
b. Single line to ground faults	82. The earth wire should not be of size smaller than	
c. Double line to ground faults	a. 10 SWG Copper	
d. three phase short circuits	b. 8 SWG Copper	
70. A bus coupler circuit breaker is utilized in a substation for	c. 6 SWG Copper	
a. Joining the transmission line with station bus bar	d. 4 SWG Copper	
b. Joining the main and transfer bus in a station	83. Zero sequence currents are absent in case of	
c. Joining the generator with transfer	a. Ungrounded systems	
d. Joining the neutral of the generator with earth	b. Solid grounded systems	
71. Large internal faults are protected by	c. Resistance grounded systems	
a. Mho and Ohm relays	d. Reactance grounded systems	
b. Merz price percentage differential protection	84. During arcing grounding conditions, the phase voltage of	
c. Horn gaps and temperature relays	the system rises to times its normal value	
d. Earth fault and positive sequence relays	a. 20	
72. Which of the following bus-bar arrangements are more	b. 15	
expensive?	c. 5 to 6	
a. Ring bus bar arrangement	d.	
b. Single bus bar arrangement	85. Isolated neutral system has the disadvantages of	
c. Duplicate bus bar arrangement	a. Less voltage oscillations	
d. Double main and transfer bus bar arrangement	b. Current in the system is very large	
73. Bus coupler is very essential in	c. Persistent arcing ground	
a Ring bus bar arrangement	d, negligible ground fault current	
h. Single hus har arrangement	86 Far thing of Electrical Equipment is necessary for the	
c. Main and transfer arrangement	Protection against	
d Double hus bar and double breaker arrangement	a Over loading	
74 A hus har is rated by	h Voltage fluctuations	
a Current only	c Danger of electric Shock	
h. Voltage only	d High conductor temperature	
c Voltage Current and frequency	87 The earth wire should be	
d Voltage Current frequency and short circuit current	a Good conductor of electricity	
a. Forago, ourront, noquency and short encult current		
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D. Mechanically Strong	c. Elimination of arcing ground
c. Mechanically Strong But bad	0. Steady state stability purpose
88 Farth wires are made of	a The safety of personnel from electric shock
a Copper	b. To reduce the current
h Aluminum	c. Increasing the voltage stress on lines and equipment
	with respect to earth
d. Galvanized standard steel	d. To reduce the impedance
89. Grounding is generally done at the	101. Effective grounding is also known as
a Receiving end	a Resistance grounding
b. Supply end	b. Reactance grounding
c. The middle of receiving and supply endd. 1/3 from supply end	c. Solid grounding
90. Grounding transformer in a system is usually connected is	d. Voltage Transformer grounding
a. delta/delta	103. For a solidly grounded system the maximum line to
b. star/delta	ground voltage when the fault occurs will not exceed
c. zigzag/delta	u u u u u u u u u u
d. star/star	on healthy phases
91. The advantage with neutral grounding is that	a. 80 % line voltage
a. Over voltages due to lightning is discharged to grounded	b. 90 % line voltage
 b. Over voltages due to switching is discharged to 	c. 50 % line voltage
grounded	d. 40 % line voltage
c. Over voltages due to Power frequency is discharged to	104. In a solid grounding system, when there is a line to
grounded	ground fault on one of the
 d. Over voltages due to power frequency and switching are 	phase of a 3-phase system the voltages of other phases are
discharged to grounded	a. Remains same
92. One of the advantages with neutral grounding is	b. Becomes Zero
 a. Voltage of phases is greater than line to ground voltages 	 c. Becomes 1.732 time phase voltage
b. Voltage of phases limited to line to ground voltages	d. One phase voltage is 1.732 times phase and other phase
 c. Currents of all phases is greater than line to ground 	voltage zero
currents	105. For a solidly grounded system the ratio of zero sequence
 d. Currents of all phases is less than line to ground 	resistance to positive sequence reactance is
currents	a. Greater than 1
93. In an un grounding system, when there is a line to ground	b. Not greater than 1
fault on one of the phase of a 3-phase system the voltages of	c. Equal to 1
other phases are	d. Not greater than 2
a. Remains same	106. The size and cost of the transformer is reduced, with the
b. Becomes Zero	solid grounding because
c. Becomes 1./32 time phase voltage	a. Insulation requirements are less
d. One phase voltage is 1.732 times phase and other phase	D. Voltages are reduced
Voltage zero	c. Currents are reduced
94. The advantage of isolated neutral is	0. IOSSES are reduced
a. Interference with communication lines are reduced because	107. Which of the following neutral systems will require the
zero sequence current is zero	ing thing arrestor of least voltage rating
b. Interference with communication lines are reduced	a. Insulated
a Interference with communication lines are reduced	o. Desistance earthed
because Resitive sequence current is zero	d. Resistance earthed
d Interference with communication lines are reduced	108 For a solidly grounded system the ratio of zero sequence
because positive and pegative sequence currents is zero	reactance to positive sequence reactance is
95. Life the equinment will improved if	a Not greater than 3
a Neutral is grounded	h Greater than 3
h. Neutral is isolated	c. Equal to 3
c. Un to certain voltage	d. Not greater than 4
d. Up to some current level	109. The solid grounded system is
96 Peterson coil is used for	a Less expensive than any other grounded system
a. Grounding of system neutral	b. More expensive than any other grounded system
b. To reduce fault current	c. Equal to any other grounded system
c Connecting two interconnected system	d. Depends on the range of voltage
d. For shunt compensation of transmission lines	110. Solid ear thing is done for voltage below
97. The method of neutral grounding affects the	a 400V b 600V c. 33KV d 66KV
a Positive sequence net work	111. Circuits with large charging currents
b. Negative sequence network	type of grounding is used
c. Zero sequence network	a. Solid grounding
d. Positive sequence net work & Negative sequence	b. Resistance grounding
network	c. Reactance grounding
98. Arcing on transmission lines is prevented by connecting	d. Resonant grounding
a/an in neutral	112. The grounding which effectively reduces the interference
a. Inductor b. Resistor c. Capacitor d. Protective relav	with communication circuits is
99. The advantages of neutral ear thing is	a. Solid grounding
a. Safety of personnel	b. Resistance grounding
b. Reduction of earth fault current	c. Resonant grounding

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b. Neutral point acts as Reflection point	the receiving end is
c. Too costly	a. Greater than sending end
d. Grounding is not satisfactory	b. Less than sending end
136. In a normal grounding practice if the zig-zag	c. Equal to sending end
a Star - delta transformer without loading the delta side is	sending end
used	148. Surge impedance of a line can be expressed as
b. Star - delta transformer with loading the delta side is	a.
used	b. (L/C)
c. Delta - Star transformer with loading the delta side is	c. (C/L)
used	d. 1/ (LC)
 d. Delta - delta transformer with loading the delta side is 	149. During the lightning process on clouds the clouds get
used	charged is
137. For voltage up to 600 V or above 33 kV	a. Positively or Negative only
type of grounding is used	D. No charge is induced
b. Resonant arounding	charging
c Resistance arounding	d Neutral
d. Solid grounding	150. Surge impedance of an over head line is of the order of
138. For voltage between 3.3 kV to 33 kV	a. Ten
type	b. One
of groundings is used	c. Hundreds
a. Reactance grounding and Resistance grounding	d. Thousands
b. Isolated neutral	151. Lightning is a huge spark caused by electrical discharge
c. Resonant grounding	may take place between
d. Solid grounding	a. Clouds and moon
a Reactance grounding	c. Cloud and earth
b. Resonant arounding	d Cloud and stars
c. Resistance grounding	152. Which of the following is the requirement for the
d. Solid grounding	protection power station buildings against direct strokes?
140. Synchronous motors are normally provided with	a. Interception
a. Reactance grounding	b. Reflection
b. Resonant grounding	c. Convection
c. Resistance grounding	d. Radiation
d. Solid grounding	153. Which of the following factor should be considered in the
141. In case transformer grounding practice copper losses are	design of a transmission line against Lightning with ground
a. Always present b. Prosent at the time of fault	wile ?
c Present only in night times	h Thickness of the wire
d. Present only in day times	c. Colour of the wire
142. With the help of Harmonic suppressors	d. Tensile strength of the wire
a. Third harmonic currents are reduced to safe value	154. The volt-ampere characteristics of a non-linear resistor
b. All harmonic currents are reduced to safe value	used in surge arrester is given by α (where α is the
c. First harmonic currents are reduced to safe value	characteristic of the material and taken as greater than 1)
d. Only even harmonics are eliminated	a.
143. Switching over voltages are more nazardous than	D. $i = k(rm(y))$
a Low voltage system	C. I – K(III(V))2 d
h 33KV system	u. 155. The energy in a lightning stroke can be as high as
c. EHV & UHV system	a. 100 units
d. 11 KV system	b. 1000 units
144. Which of the following is the cause for over voltage in	c. 250 units
power system?	d. 10 units
a. Low current	156. The equivalent circuit of a surge arrester may be
b. High current	represented as:
c. Resonance	a. Capacitor
a. Medium current	D. An Inductor
classified as	d Resistor
a Internal over voltages only	157. The lightning arresters used in power systems to protect
b. External over voltages only	electrical equipment against
c. Internal and external voltages	a. Direct strokes of Lightning
d. Any power frequency voltage	b. Over voltages due to indirect lightning stroke
146. The insulation of modern EHV lines is designed based on	c. Power frequency over voltages
a. The lightning voltages	d. Over currents due to lightning
b. Switching voltages	158. Earthed lightning rods are provided
c. Corona voltage	a. Above overhead lines
u. IN VUIIdye	D. ADOVE All tall buildings
loading, the voltage at	d. Near motor and generator terminals
issuing, ins tollage at	a real motor and generator terminate

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